

EXHIBIT A

ATGGAGCAAACAGTGCTTGTACCACCAGGACCTGAC	302
M E Q T V L V P P G P D	12
AGCTTCAACTTCTTCACCAGAGAATCTCTTGCGGCTATTGAAAGACGCATTGCAGAAGAA	362
S F N F F T R E S L A A I E R R I A E E	32
AAGGCAAAGAATCCCAAACCAGACAAAAAAGATGACGACGAAAATGGCCCAAAGCCAAAT	422
K A K N P K P D K K D DD E N G P K P N	52
AGTGACTTGGAAGCTGGAAAGAACCTTCCATTTATTTATGGAGACATTCCTCCAGAGATG	482
S D L E A G K N L P F I Y G D I P P E M	72
GTGTCAGAGCCCCCTGGAGGACCTGGACCCCTACTATATCAATAAGAAAACCTTTTATAGTA	542
V S E P L E D L D P Y Y I N K K T F I V	92
TTGAATAAATTGAAGGCCATCTTCCGGTTCAGTGCCACCTCTGCCCTGTACATTTTAACT	602
L N K L K A I F R F S A T S A L Y I L T	112
CCCTTCAATCCTCTTAGGAAAAATAGCTATTAAGATTTTGGTACATTCATTATTCAGCATG	662
P F N P L R K I A I K I L V H S L F S M	132
CTAATTATGTGCACTATTTTGACAAACTGTGTGTTTATGACAATGAGTAACCCTCCTGAT	722
L I M C T I L T N C V F M T M S N P P D	152
TGGACAAAGAATGTAGAATACACCTTCACAGGAATATATACTTTTGAATCACTTATAAAA	782
W T K N V E Y T F T G I Y T F E S L I K	172
ATTATTGCAAGGGGATTCTGTTTAGAAGATTTTACTTTTCCTTCGGGATCCATGGAACCTGG	842
I I A R G F C L E D F T F L R D P W N W	192
CTCGATTTCACTGTCATTACATTTGCGTACGTCACAGAGTTTGTGGACCTGGGCAATGTC	902
L D F T V I T F A Y V T E F V D L G N V	212
TCGGCATTGAGAACATTCAGAGTTCTCCGAGCATTGAAGACGATTTTCAGTCATTCCAGGC	962
S A L R T F R V L R A L K T I S V I P G	232
CTGAAAACCATTGTGGGAGCCCTGATCCAGTCTGTGAAGAAGCTCTCAGATGTAATGATC	1022
L K T I V G A L I Q S V K K L S D V M I	252
CTGACTGTGTTCTGTCTGAGCGTATTTGCTCTAATTGGGCTGCAGCTGTTTCATGGGCAAC	1082
L T V F C L S V F A L I G L Q L F M G N	272
CTGAGGAATAAATGTATACAATGGCCTCCCACCAATGCTTCCTTGGAGGAACATAGTATA	1142
L R N K C I Q W P P T N A S L E E H S I	292
GAAAAGAATATAACTGTGAATTATAATGGTACACTTATAAATGAACTGTCTTTGAGTTT	1202
E K N I T V N Y N G T L I N E T V F E F	312

EXHIBIT A

GACTGGAAGTCATATATTCAAGATTCAAGATATCATTATTTCTGGAGGGTTTTTTAGAT	1262
D W K S Y I Q D S R Y H Y F L E G F L D	332
GCACTACTATGTGGAAATAGCTCTGATGCAGGCCAATGTCCAGAGGGATATATGTGTGTG	1322
A L L C G N S S D A G Q C P E G Y M C V	352
AAAGCTGGTAGAAATCCCAATTATGGCTACACAAGCTTTGATACCTTCAGTTGGGCTTTT	1382
K A G R N P N Y G Y T S F D T F S W A F	372
TTGTCCTTGTTTCGACTAATGACTCAGGACTTCTGA	1418
L S L F R L M T Q D F X	384

EXHIBIT B

BLAST COMPARISON OF SEQ ID NO: 2 TO OPEN READING FRAME

Identities = 1152/1152 (100%), Gaps = 0/1152 (0%)

SEQ ID NO: 2	267	ATGGAGCAAACAGTGCTTGTACCACCAGGACCTGACAGCTTCAACTTCTTCACCAGAGAA	326
SCN1A ORF	1	ATGGAGCAAACAGTGCTTGTACCACCAGGACCTGACAGCTTCAACTTCTTCACCAGAGAA	60
SEQ ID NO: 2	327	TCTCTTGCGGCTATTGAAAGACGCATTGCAGAAGAAAAGGCAAAGAATCCCAAACCAGAC	386
SCN1A ORF	61	TCTCTTGCGGCTATTGAAAGACGCATTGCAGAAGAAAAGGCAAAGAATCCCAAACCAGAC	120
SEQ ID NO: 2	387	AAAAAAGATGACGACGAAAATGGCCCAAAGCCAAATAGTGACTTGGAAGCTGGAAAGAAC	446
SCN1A ORF	121	AAAAAAGATGACGACGAAAATGGCCCAAAGCCAAATAGTGACTTGGAAGCTGGAAAGAAC	180
SEQ ID NO: 2	447	CTTCCATTTATTTATGGAGACATTCTCCAGAGATGGTGTGAGAGCCCCCTGGAGGACCTG	506
SCN1A ORF	181	CTTCCATTTATTTATGGAGACATTCTCCAGAGATGGTGTGAGAGCCCCCTGGAGGACCTG	240
SEQ ID NO: 2	507	GACCCCTACTATATCAATAAGAAAACCTTTTATAGTATTGAATAAATTGAAGGCCATCTTC	566
SCN1A ORF	241	GACCCCTACTATATCAATAAGAAAACCTTTTATAGTATTGAATAAATTGAAGGCCATCTTC	300
SEQ ID NO: 2	567	CGGTTTCAGTGCCACCTCTGCCCTGTACATTTTAACTCCCTTCAATCCTCTTAGGAAAATA	626
SCN1A ORF	301	CGGTTTCAGTGCCACCTCTGCCCTGTACATTTTAACTCCCTTCAATCCTCTTAGGAAAATA	360
SEQ ID NO: 2	627	GCTATTAAGATTTTGGTACATTTCATTATTCAGCATGCTAATTATGTGCACTATTTTGACA	686
SCN1A ORF	361	GCTATTAAGATTTTGGTACATTTCATTATTCAGCATGCTAATTATGTGCACTATTTTGACA	420
SEQ ID NO: 2	687	AACTGTGTGTTTATGACAATGAGTAACCCTCCTGATTGGACAAAGAATGTAGAATACACC	746
SCN1A ORF	421	AACTGTGTGTTTATGACAATGAGTAACCCTCCTGATTGGACAAAGAATGTAGAATACACC	480
SEQ ID NO: 2	747	TTCACAGGAATATATACTTTTGAATCACTTATAAAAAATTATTGCAAGGGGATTCTGTTTA	806
SCN1A ORF	481	TTCACAGGAATATATACTTTTGAATCACTTATAAAAAATTATTGCAAGGGGATTCTGTTTA	540
SEQ ID NO: 2	807	GAAGATTTTACTTTCCCTCGGGATCCATGGAACCTGGCTCGATTTCAGTGTCAATTACATTT	866
SCN1A ORF	541	GAAGATTTTACTTTCCCTCGGGATCCATGGAACCTGGCTCGATTTCAGTGTCAATTACATTT	600
SEQ ID NO: 2	867	GCGTACGTCACAGAGTTTGTGGACCTGGGCAATGTCTCGGCATTGAGAACATTAGAGTT	926
SCN1A ORF	601	GCGTACGTCACAGAGTTTGTGGACCTGGGCAATGTCTCGGCATTGAGAACATTAGAGTT	660
SEQ ID NO: 2	927	CTCCGAGCATTGAAGACGATTTAGTCATTCCAGGCCTGAAAACCATTTGTGGGAGCCCTG	986
SCN1A ORF	661	CTCCGAGCATTGAAGACGATTTAGTCATTCCAGGCCTGAAAACCATTTGTGGGAGCCCTG	720
SEQ ID NO: 2	987	ATCCAGTCTGTGAAGAAGCTCTCAGATGTAATGATCCTGACTGTGTTCTGTCTGAGCGTA	1046
SCN1A ORF	721	ATCCAGTCTGTGAAGAAGCTCTCAGATGTAATGATCCTGACTGTGTTCTGTCTGAGCGTA	780
SEQ ID NO: 2	1047	TTTGCTCTAATTGGGCTGCAGCTGTTTCATGGGCAACCTGAGGAATAAATGTATACAATGG	1106
SCN1A ORF	781	TTTGCTCTAATTGGGCTGCAGCTGTTTCATGGGCAACCTGAGGAATAAATGTATACAATGG	840
SEQ ID NO: 2	1107	CCTCCCACCAATGCTTCCTTGGAGGAACATAGTATAGAAAAGAATATAACTGTGAATTAT	1166
SCN1A ORF	841	CCTCCCACCAATGCTTCCTTGGAGGAACATAGTATAGAAAAGAATATAACTGTGAATTAT	900

EXHIBIT B

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SEQ ID NO: 2 1167 AATGGTACACTTATAAATGAACTGTCTTTGAGTTTGACTGGAAGTCATATATTCAAGAT 1226
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
SCN1A ORF      901 AATGGTACACTTATAAATGAACTGTCTTTGAGTTTGACTGGAAGTCATATATTCAAGAT 960

SEQ ID NO: 2 1227 TCAAGATATCATTATTTCTGGAGGGTTTTTTAGATGCACTACTATGTGGAAATAGCTCT 1286
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
SCN1A ORF      961 TCAAGATATCATTATTTCTGGAGGGTTTTTTAGATGCACTACTATGTGGAAATAGCTCT 1020

SEQ ID NO: 2 1287 GATGCAGGCCAATGTCCAGAGGGATATATGTGTGTGAAAGCTGGTAGAAATCCCAATTAT 1346
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
SCN1A ORF      1021 GATGCAGGCCAATGTCCAGAGGGATATATGTGTGTGAAAGCTGGTAGAAATCCCAATTAT 1080

SEQ ID NO: 2 1347 GGCTACACAAGCTTTGATACCTTCAGTTGGGCTTTTTTGTCTTGTTTCGACTAATGACT 1406
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
SCN1A ORF      1081 GGCTACACAAGCTTTGATACCTTCAGTTGGGCTTTTTTGTCTTGTTTCGACTAATGACT 1140

SEQ ID NO: 2 1407 CAGGACTTCTGA 1418
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SCN1A ORF      1141 CAGGACTTCTGA 1152

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